

IN THE CLAIMS:

Cancel claims 1-11 without prejudice or disclaimer of the subject matter thereof and substitute therefor:

12. (NEW) Process for determination of a water content material, in particular organic carbon content and/or nitrogen, in which an aqueous sample is evaporated and combusted in at least one heating vessel equipped with a heating facility and the combustion product is fed in a transport gas flow to a detector for determination of the concentration of a gaseous compound of the water content material, wherein calibration is performed with a predetermined amount of a calibration gas which contains a predetermined concentration of the element corresponding to the water content material, in particular carbon and/or nitrogen.

13. (NEW) Process according to claim 12, wherein a calibration gas with a predetermined CO₂ content is used to determine the amount of organic carbon (TOC) in measured samples.

14. (NEW) Process according to claim 12, wherein a predetermined volume of the calibration gas is set by filling a reservoir, in particular a section of hose, with a known volume under atmospheric pressure or with pressure compensation, which the flow of transport gas flows through after filling with the calibration gas.

15. (NEW) Process according to claim 12, wherein within the scope of a calibration procedure, calibration gas is fed several times into the combustion vessel several times, each time including recording of the water content material in the detector.

16. (NEW) Process according to claim 15, wherein calibration takes place in several steps with a large number of different calibration gases containing different predetermined amounts of the element to be detected.

17. (NEW) Process according to claim 12, wherein the range under a measured signal peak on the detector is integrated and scaled to the predetermined content of the element in the calibration gas.

18. (NEW) Process according to claim 17, wherein a predetermined correction factor is used for scaling.

19. (NEW) Arrangement for carrying out the process according to claim 12, with a measured sample feeding unit, a heating vessel, a transport gas source, a detector unit arranged at the outlet end of the heating vessel and a flow path linking the inlet end of the heating vessel to the transport gas source, to which the measure sample feeding unit is or can be connected and locked, wherein at least one calibration gas reservoir is integrated or is to be integrated into the flow path of the transport gas flow.

20. (NEW) Arrangement according to claim 19, wherein at least one gas cylinder containing the calibration gas, in particular a calibration gas with a predetermined CO₂ concentration, is connected in a lockable fashion to the flow path of the transport gas.

21. (NEW) Arrangement according to claim 20, wherein the gas cylinder can be connected to a hose section of a predetermined volume, which constitutes one section of the transport gas flow path.

22. (NEW) Arrangement according to claim 20, wherein a plurality of gas cylinders containing the calibration gas in different concentrations can be connected to the transport gas flow path and individually shut off.

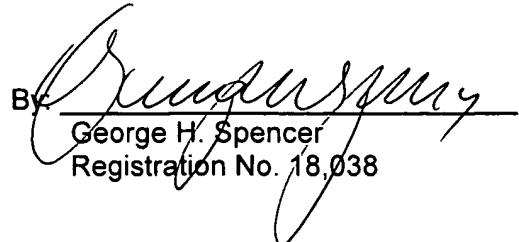
Respectfully submitted,

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